REMARKS

Claims 1-14 and 16-18 are pending. Claims 1 and 16 are independent. By the present Amendment, claims 1-4, 10, 12 and 16 have been amended.

Applicants note with appreciation the allowance of claims 16-18 and the indication that claims 4-8 and 10-14 are allowable if rewritten in independent form. Accordingly, claims 4, 10 and 12 have been amended and rewritten into independent form including the limitations of any base claims and any intervening claims.

Claim Objections

Claim 16 has been amended to correct a typographical error and, as amended, is believed to overcome the basis for objection set forth in the Office Action.

Claim Rejections – 35 U.S.C. § 103

Claims 1-3 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Schucht (U.S. Patent No. 5,276,402) in view of Muller et al (EP 0 260 500). The Office Action refers to column 1, lines 18-23 of Schucht to purportedly teach processing measured voltages to characterize a transformer according to its winding configuration. Applicants disagree.

Column 1, lines 18-23 of Schucht refers to determining the polarity and phase-relation of a three-phase transformer by comparing voltages present between the primary and secondary windings. As the remainder of Schucht makes clear, the comparing of voltages is not for determining the winding configuration for that transformer since the winding configuration is already known. With the winding configuration already known, Schucht describes determining the polarity and phase-relation for that three-phase transformer of known configuration.

See, for example, the text at column 7, lines 17-20 of Schucht which describes how voltmetering circuits are connected as shown in Figs. 1-4 "*depending on which of the four types of three-phase transformers is being tested.*" Hence, the winding configuration for these transformers is known prior to set up and, therefore, the voltmetering circuits are for measuring voltages for purposes other than determining which type of winding configuration is in use. This is in contrast with the invention

recited in claim 1 and as described in the specification on page 3, lines 1-6, which explain how winding configuration can be automatically determined.

See also, for example, the text in Schucht in column 12, lines 36-55 which describes how a delta-wye type transformer under test, that is, a known winding configuration, is set up for performing ANSI-required checking of polarity and phase-relation, among other measurements. Set-ups are described in Schucht for other known transformers under test, that is, the delta-delta type (see column 11, line 61 through column 12, line 14), the wye-wye type (see column 12, lines 15-35), and the wye-delta type (see column 12, line 56 through column 13, line 7). Thus, in each disclosed set up of Schucht, the winding configuration is already known for performing various measurements; therefore, Schucht cannot disclose or suggest measuring voltages to determine a winding configuration for a transformer and thereby characterise it.

Accordingly, withdrawal of the 35 U.S.C. §103(a) rejection of claims 1-3 and 9 is respectfully requested.

Conclusion

In view of the amendments and arguments set forth above, Applicants submit that the present application is in condition for allowance and would appreciate early notification of the same.

Invitation for a telephone interview

The Examiner is invited to call the undersigned at (202) 659-9076 if further issues remain with allowance of this case.

Deposit Account Authorization

Although no fee is believed due by submission of this paper, authorization is hereby made to charge any fees due or outstanding, or credit any overpayment, to Deposit Account No. **18-2220** (Order No. 52391).

Respectfully Submitted,

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